

30. The battery of claim 29 wherein the positive electrode has an average thickness less than 10 microns and comprises electroactive particles having an average primary particle diameter less than about 500 nm.

31. The battery of claim 29 wherein the negative electrode has an average thickness less than 10 microns and comprises electroactive particles having an average primary particle diameter less than about 500 nm.

32. The battery of claim 29 wherein both the negative electrode and the positive electrode have an average thickness less than 10 microns and comprises electroactive particles having an average primary particle diameter less than about 500 nm.

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33. The battery of claim 29 wherein the separator has a thickness less than about 10 microns.

34. (Amended) The battery of claim 29 wherein the negative electrode comprises a lithium intercalation compound.

35. The battery of claim 29 wherein the negative electrode comprises lithium metal or a lithium alloy.

36. The battery of claim 29 wherein the negative electrode comprises tin oxide or derivatives thereof.

37. The battery of claim 29 wherein at least one of the electrodes comprises electroactive particles having an average diameter less than about 100 nm.

38. The battery of claim 29 wherein the positive electrode comprises a composition selected from the group consisting of vanadium oxide, silver vanadium oxide, manganese oxide, lithium manganese oxide, lithium titanium oxide, lithium cobalt oxide, lithium nickel oxide, iron sulfides, molybdenum sulfide and mixtures, composites and derivative thereof.

39. The battery of claim 29 wherein the separator comprises a polymer.

40. The battery of claim 29 wherein the separator comprises a nonliquid electrolyte comprising a lithium compound between the positive electrode and the negative electrode.

41. The battery of claim 29 further comprising a current collector in electrical contact with the positive electrode, the current collector comprising aluminum metal, copper metal or stainless steel metal.

42. The battery of claim 41 wherein the current collector is a foil or an expanded mesh.

43. The battery of claim 29 further comprising a current collector in electrical contact with the negative electrode, the current collector comprising aluminum metal, copper metal or stainless steel metal.